



46TH TEST WING

FACT SHEET

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March 2009

781st Test Squadron

National Radar Cross Section Test Facility (NRTF)



Uses

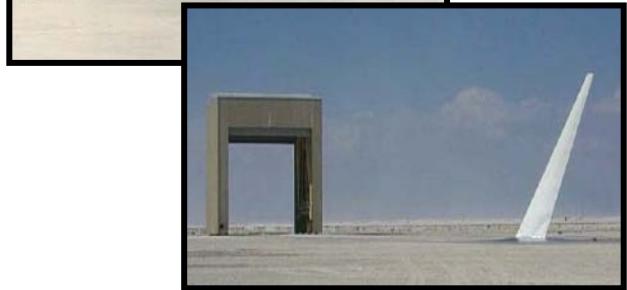
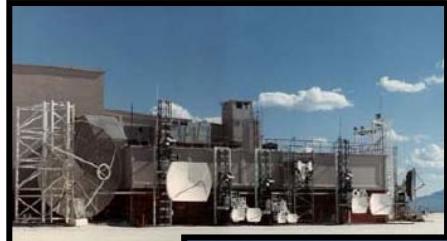
- **Manages two static radar signature measurement ranges: Mainsite & RAMS**
- **Mainsite is capable of collecting radar cross section data, monostatically or bistatically, on full-scale flyable targets**
- **RAMS is capable of testing very low observable targets**

Unique Capabilities

- **Mainsite**
 - **Collects radar cross section data, monostatically & bistatically**
 - **Full-scale, flyable targets**
- **RAMS**
 - **Tests very low observable targets**
 - **Wide frequency range**
 - **Sub-scale & full-scale targets**

The 781st Test Squadron manages the National Radar Cross Section Test Facility (NRTF), which consists of two premier, outdoor, static radar signature measurement ranges (Mainsite and RAMS). Although complementary, Mainsite and RAMS ranges each offer one-of-a-kind capabilities.

Mainsite



The Mainsite facility is capable of radar cross section (RCS) amplitude and phase measurements (monostatic and bistatic), antenna pattern measurements, glint and near field measurements.



A wide variety of targets can be tested—from models to full size aircraft or ground vehicles. Targets can be mounted on pylons or columns at a variety of heights, orientations and locations to meet virtually any measurement requirement.

RAMS



The RAMS facility is an extremely efficient, secure, shadow-plane range specifically designed for monostatic RCS measurements of RCS targets. RAMS was first operational in 1985.



RAMS Antennae Farm

- Specializes in narrowband and wideband RCS signature characterization of scaled, full-scale, and flyable articles
- Provides characterization data for antenna radiation patterns and antenna backscatter



The phase-coherent radar at RAMS measures RCS amplitude and phase for a wide range of target orientations utilizing a retractable pylon .



Air Force Materiel Command's 2001 Chief of Staff Team Excellence Award Nominee for Partnering with Industry.

Point of Contact

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